Appendix I

Certificate of NSTS/ISS Payload Safety Compliance for AMS-02 on STS-134/ULF-6

CERTIFICATE OF NSTS/ISS PAYLOAD SAFETY COMPLIANCE FOR

1) **Hardware addressed on this Certificate:**
   a) Payload Name (Acronym): AMS-02
      i) If multiple components identify here or add attachment: _____
   b) Launch vehicle(s)/launch Carrier(s)*: STS-134
   c) Return vehicle/hardware disposal*: AMS-02 Stays with ISS through ISS End of Life
   d) Hardware On-Orbit Operations (vehicle/ISS Segment): ISS S3 Upper Inboard CAS site.

Note: This 1114A certification is for operations on the **Shuttle and ISS (excluding the Russian Segment). It also addresses **Shuttle** launch/return. Launch/**return**/disposal on other vehicles requires adherence to the unique certification process as dictated by the applicable vehicle/IP process requirements.*

2) **Certification Applicability:** applicable to

X Payload Design and Flight Operations

Ground Support Equipment Design and Ground Operations

_____

3) **The Payload Organization Hereby Certifies that:**

X For STS, the Payload Hardware Identified on this Form Complies with all Applicable Requirements of the NSTS 1700.7 (current issue), "Safety Policy and Requirements for Payloads Using the National Space Transportation System," and/or KHB 1700.7, "Space Shuttle Payload Ground Safety Handbook."

X For ISS, the Payload Hardware Identified on this Form Complies with all Applicable Requirements of the NSTS 1700.7 (current issue), "Safety Policy and Requirements for Payloads Using the National Space Transportation System," NSTS 1700.7 ISS Addendum (current issue), "Safety Policy and Requirements for Payloads Using the International Space Station," and/or KHB 1700.7, "Space Shuttle Payload Ground Safety Handbook."

1) The Safe Design Life is 20 Years from Launch(4/11) (date). This is the time period the payload can be retained at or restored to a specified safe condition using prescribed resources and procedures. The limiting component(s) the determined this safe design life
Is (are) Structural components calculated Fatigue Life, Material Life on Orbit (Safe for 20 Year Life, AMS-02 is Use Until Fail), which requires (recalibration, repair, replacement, etc). (Additional Analysis to extend life.)

2) The Safe Operational Life is 20 Years from Launch(4/11) (date). The limiting component(s) that determined this safe operational life is (are) Structural components calculated Fatigue Life, Material Life on Orbit (Safe for 20 Year Life, AMS-02 is Use Until Fail), which requires (recalibration, repair, replacement, etc).

4) **Approved Waivers/Deviations:** AMS-02-NCR-001, "AMS-02 Payload EVA Touch Temperature "

5) **Approved (Payload Organization Manager) and Date:**

TRENT MARTIN 3/30/11

JSC Form 1114A (Rev November 10, 2008) (MS Word September 1997)